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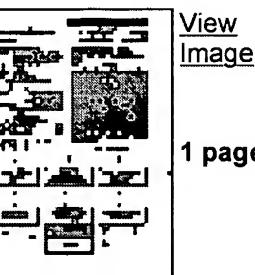
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>Title: **JP8031419A2: NEGATIVE ELECTRODE MATERIAL FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY**

Country: JP Japan  
Kind: A

Inventor: MATSUYOSHI HIROAKI;  
NAKAGAWA YOSHITERU;



Assignee: OSAKA GAS CO LTD  
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IPC Code: H01M 4/58; H01M 4/02; H01M 10/36;

Priority Number: July 14, 1994 JP1994000162417

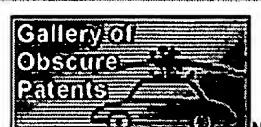
Abstract: Purpose: To obtain the lithium secondary battery, which has excellent energy density, excellent discharging characteristic and excellent cycle characteristic, by using carbide, which is obtained by baking Brooks-Taylor type mesophase small spherical body, as the negative electrode material.

Constitution: Brooks Taylor type mesophase small spherical body is baked in the nitride atmosphere so as to obtain the Brooks-Taylor type mesophase small spherical body carbide at 1.50-2.00 of true specific gravity. It is used for the structural member of a negative electrode of a lithium secondary battery. Raw material of MCMB (meso carbon micro beads) of the Brooks-Taylor type mesophase is manufactured from coal tar or pitch. Spherical body of type MCMB has the structure that condensed multi-ring aromatic molecular are vertically laminated in the optical axis direction. Consequently, since the end surface of carbon is arranged vertical to the surface of the spherical body of MCMB, lithium ion can easily go in and out at the time of charge and discharge, and the diffusing speed thereof is considered high.

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